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Γ	APPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/755,009	10/755,009 01/08/2004		William A. Wood	SP03-039	7736
	22928 7590 03/24/2005 CORNING INCORPORATED SP-TI-3-1				EXAMINER	
					HUGHES, JAMES P	
	CORNING,	NY 148	31		ART UNIT	PAPER NUMBER
	,				2883	

Please find below and/or attached an Office communication concerning this application or proceeding.

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}	Application No.	Applicant(s)				
\int_{Ω}	10/755,009	WOOD, WILLIAM A.				
Office Action Summary	Examiner	Art Unit				
	James P. Hughes	2883				
The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence address	•			
Period for Reply	ALC OFT TO EVOIDE AMOUNT I	(C) FDOM				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tire of the statutory minimum of thirty (30) day within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 08 Ja	nuary 2004.					
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.						
3) Since this application is in condition for allowar						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 08 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) accepted or b)⊠ objected drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119	•					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>040804 090904</u>. 	Paper No(s)/Mail D 5) Notice of Informal (6) Other:	Patent Application (PTO-152)				

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Art Unit: 2883

DETAILED ACTION

Drawings

1. Figures 2-4 and 6 are objected to because they have numerous "hand drawn" aspects.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2883

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

2. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Di Pasquale et al. (6,556,346) in view of Mozdy (WO 03/012489). Di Pasquale et al. (6,556,346), herein after referred to as "Di Pasquale", teaches an optical amplifier comprising a length of erbium doped core amplifying fiber coil (108) comprising a cladding with a diameter of 90 um, (See e.g., Col. 17, Il. 49-67) and a length of between 30-40 m. (See e.g., Col. 4, Il. 10-25) However, Di Pasquale does not explicitly teach the teach the bend radius of the coil.

Mozdy teaches a high absorption EDFA wherein it is taught that an optimal bend radi for EDFA is 16 mm (32 mm diameter). (See e.g., paragraphs 27 and 38)

It would have been obvious to one of ordinary skill in the art at the time of the invention to implement a bend radius of 16mm I the invention of Di Pasquale, as taught by Mozdy, because this would allow low bend loss while allowing for a compact device.

Regarding claims 4, 8, and 16; While Di Pasquale et al. (6,556,346) in view of Mozdy teaches clad diameters and bending radii that are close to those claimed in the instant invention, the exact claimed values are not taught. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to choose the claimed values in the invention of Di Pasquale in view of Mozdy because it has been held that discovering an optimum value of result effective variables involves only routine skill in the art. In re Boesch, 617 F. 2d 272, 205 USPQ 215 (CCPAS 1980).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Blaszyk et al. (6,771,865) teaches a low bend loss optical fiber. (Abstract)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James P. Hughes whose telephone number is 571-272-2474. The examiner can normally be reached on Monday - Friday 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

James P. Hughes Patent Examiner Art Unit 2883

JH

Frank G. Font
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